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IN THE CLAIMS

1. (Currently Amended) A therapeutic ultrasound system, comprising:

an ultrasonic transducer for irradiating a therapeutic ultrasound on a region to be treated;

~~setting-up~~setting means for ~~setting-up an a~~ a continuous insonation time of said therapeutic ultrasound; and

~~bubble~~cavitation detecting means for ~~detecting a bubble,~~ during exposure of said therapeutic ultrasound, cavitation caused in a region exposed with said therapeutic ultrasound ~~during exposure of said therapeutic ultrasound,~~

wherein ~~said setting-up~~ setting means ~~has a function of setting-up~~ sets a continuous insonation time according to which said ultrasonic transducer irradiates said therapeutic ultrasound on said exposed region while said exposed region is experiencing said cavitation, from a point of time from of detection of the bubble cavitation by said bubble cavitation detecting means to the end of the exposure of said therapeutic ultrasound.

2. (Currently Amended) The therapeutic ultrasound system according to claim 1,

wherein ~~said bubble~~ cavitation detecting means ~~has~~ means for detecting an acoustic wave having a frequency twice a

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center frequency of said therapeutic ultrasound transmitted from said ultrasonic transducer.

3. (Currently Amended) The therapeutic ultrasound system according to claim 2, further comprising:

means for generating an alarm when a received signal intensity of harmonics of said therapeutic ultrasound reaches a set value or more.

4. (Currently Amended) A therapeutic ultrasound system, comprising:

an ultrasonic transducer for irradiating a therapeutic ultrasound on a region to be treated; ~~and~~

detecting means for detecting, during exposure of said therapeutic ultrasound, an audible sound generated in a region exposed with said therapeutic ultrasound ~~during exposure of said therapeutic ultrasound;~~ and

setting means for setting a continuous insonation time according to which said ultrasonic transducer irradiates said therapeutic ultrasound on said exposed region while said exposed region is generating said audible sound, from a point of time of detection of the audible sound by said detecting means.

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5. (Canceled)

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